

FOLIO

UNIVERSITY OF ALBERTA
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Dean of Rehabilitation Medicine takes on Vice-President (Research) position

Appointment of Martha Piper effective this January

The appointment of Martha Piper for a five-year term as Vice-President (Research) beginning in January 1993 is hailed by many across the campus as the right move at the right time.

"I think Martha Piper is a terrific choice for Vice-President (Research)," says Doug Wilson, Dean of Medicine. "She understands the importance of high standards in research, of measuring outcomes, and of allocating resources to areas of excellence. Her enthusiasm and drive will help her carry the message of the importance of research out to the greater community."

Dean of Arts Patricia Clements says Dean Piper's commitment to high standards in research will protect and develop excellence throughout the University in the years ahead.

Board of Governors Chair Stan Milner says, "Dr Piper will be a very valuable addition to the President's team as we deal with the demands of research and maintain the University's lead in this field."

"What became clear to me, as I looked at the position, was that the part of the University that was very dear to me, the part that values knowledge discovery, was the soul of the University that I believed in," says Dr Piper. "That's what intrigued me about this position. Universities in North America are under intense scrutiny for their research mission and potentially in a position where it might be jeopardized."

"It's the challenge of the office to ensure that the research mandate of the University is better understood by the public as a whole, because if we're going to flourish we'll need

the support of not just key politicians, but of the public," she says, adding that in recent times universities have been misunderstood.

Dr Piper will be responsible for enhancing the University's contribution to research in the country. She'll be responsible for the administration of research grants and contracts, for liaison between the central administration and public and private institutions which fund research, and the dissemination of research findings in the broader community. In 1991-92, the U of A received more than \$81 million in research grants and contracts.

She's no stranger to the field. She was appointed Dean of Rehabilitation Medicine in 1985 and reappointed for another five-year term effective 1 July 1991. Under her leadership, the Faculty's research funding has steadily increased. She led a successful \$1 million capital campaign to equip the newly renovated Corbett Hall, where the Faculty is housed, and expanded undergraduate enrollment to meet growing needs.

"She has a broad knowledge of research throughout our diverse institution and the commitment to excellence in all parts of the academy which are vital to effective leadership in this position," says President Paul Davenport. "As Dean, she has shown that she can make tough decisions in support of excellence."

"I believe the experiences in the Faculty of Rehabilitation Medicine are going to be very relevant," Dr Piper says. "We have an applied side and we've had to respond to the community, but we've also had a need to develop our basic, or curiosity-driven, research. So there was a challenge in getting support from the



Martha Piper's own research pertains to the development of the central nervous system in premature babies.

government and the community at large for the Building for Tomorrow Campaign and interpreting those [research] roles.

"When we went to manufacturers for equipment that we believed was essential for our teaching and research mission, the questions asked were, 'Why should we invest in the U of A? What distinguishes you and your research from that at other universities? And give us some evidence that the research you're doing is going to make a difference.'"

"There's no substitute for excellence. I don't think universities have understood that in the industrial sector, government sector,

alumni sector and general population, they want the same thing: excellence. But they want to be convinced of it. They don't just want to hear that we're doing good research. They want to understand it and they want to make sure it's really making an impact."

"I think the VP (Research) office will be doing exactly what every other administrative office is doing: identifying areas of strength and supporting them. It's clear we can't continue to do everything for everyone. You work with people. We will all benefit from the strengths of this University whether we are

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Discussion paper by the fall next step on Strategic Planning Task Force's agenda

President pleased with input University has received

President Paul Davenport is very pleased with the input the University's Strategic Planning Task Force has received from the internal community and broader public (see stories inside).

"Their contributions will be invaluable in guiding the Strategic Planning Task Force in its deliberations," the President, who chairs the task force, said recently.

"The success of our efforts depends very much on our ability to hear a wide range of views, reflect upon them, and then suggest strategic directions which reflect an understanding of needs of those we serve. Wide public participation in this process is indispensable."

According to Glenn Harris, Vice-President (Finance and Administration) and task force

resource person, the next step is to assimilate the material. "At the same time, we have other work going on, preparing background papers on everything from the fiscal climate to the demand for access to university education," he explained. That will ensure that the exercise is anchored in a well-informed sense of what the future holds for the University.

In the fall, the task force will release a discussion paper. "At the very least, what it will do is describe what has been heard, outline the issues as we see them, and outline some of the assumptions we think we should make about the future," Harris said.

The paper's release will create another opportunity for people who wish to react.

It's a three-step process: assessing the situation; developing a desired future for the

U of A; and developing strategies to get from here to there. There are two problems facing the task force: First, how do you bring the community along with the process? And second, although the task force will outline strategies and develop an agenda, a balance must be struck between specifics and general principles. "You don't want to stop short by uttering such generalities that you fail to provide direction for the University," Harris warned.

The Task Force was established in 1991 by General Faculties Council and the Board of Governors to enquire into key issues facing the University of Alberta. It invited broad public participation and, as a basis for discussion, released the "Key Issues" document.

Recognizing that people may want to raise other issues, the document set out a number of

topics for discussion: the role of the U of A; the shape, diversity and standards of the University's academic programs; the size and mix of the student population; the undergraduate learning experience; the quality and strength of graduate programs and excellence in research; coordination with other institutions; responding to diminishing resources; relationships with external stakeholders; attracting and retaining the best staff; governance; and administrative and support services.

Other members of the task force are: John Bertie (Chemistry); Peter Cahill, undergraduate student; Bill Grace, Board of Governors; Abdul Kamal (Physics); Chancellor Sandy Mactaggart; Vice-President (Academic) John McDonald; Mary Pemberton, Senate; Martha

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personally involved as a component of that strength or not," she says, citing the Stephen Hawking visit as an example of when she felt proud to be a part of the U of A community.

"The first step is to get people to understand that we're all in this together and that we'll all benefit from those strengths, and then we need to look at very specific mechanisms to build those areas and maintain them," she says.

But the U of A can't do it alone. "I think we have to do this with other universities. We need to be looking at building a Canadian system, so that the U of A is strong in "X", the University of Saskatchewan is strong in "Y" and UBC is strong in "Z". That may be ambitious, but I think that that's really the kind of system we're going to be looking at in the next 20 years or so."

Are these developments already emerging? "I think they are, and I think our own Faculty is a good example," she says. "We've worked very hard to develop interprovincial agreements with Saskatchewan for training rehabilitation professionals. There was tremendous pressure to develop an occupational therapy training program in Saskatchewan, but instead of doing that, we've negotiated to have them trained at the U of A. That makes sense. These are costly programs. We have a limited number who can teach these programs. They require heavy infrastructure. And to think that we can set them up in every province ... those days are over."

Dr Piper hastens to add that there is a difference between what can be done at the graduate level and the undergraduate level. "I think governments are saying they want to see interdependence between the institutions, they want to see rationalization and they want to see excellence within cost containment. Those are the messages. I think the universities that are really going to be the outstanding ones are going to be the ones that are innovative in dealing with these issues."

"The bottom line is the quality of the people we have. We're going into a recruiting phase and we need to be very serious about insisting that the people we have are the outstanding people in the field. They will attract the stu-

dents. And the students and the faculty will attract the recognition and money."

"I could spend all my time in Ottawa lobbying for more money, but if I don't have a faculty that's competitive, all that work will be to no avail."

But money isn't the critical factor, says Dr Piper, who has spent 12 years recruiting in a field with a limited number of good people. A collegial environment, critical mass, recognition and praise are all crucial. "We have the means to attract and retain outstanding people; we now must have the will to do it." She warns, however, that the University shouldn't balance its budget at the expense of recruitment. That would ensure mediocrity, she says.

The University is also going to have to examine how it can best fulfill its mission: be excellent in teaching and learning, research and original inquiry and research and community service. "To think that everyone is going to be excellent in all three is probably not very realistic," she says, and that will mean coming up with different ways of using people's strengths and rewarding them appropriately. "It's not any one structure."

Within her own Faculty, for example, some professors teach a great deal more than others. Other faculty devote much more time to original research. People are rewarded for being out there in the professional community. "Throughout the [Faculty's] system, the bottom line is that we expect everyone to be a scholar. They don't necessarily have to be involved in original inquiry, but they must be on top of their field and be able to interpret and integrate that original inquiry."

Her own research—which she has made a point of maintaining even while holding down the administrative duties of Dean—has focused on the development of the central nervous system in premature babies and how these babies learn to move. She and co-researchers have developed a new infant motor maturation scale to measure the level of early motor development in infants. The method helps identify infants at risk for severe disabilities such as cerebral palsy. Early diagnoses allow treatments to minimize disabilities.

"It kept me humble and in touch with how you do research, the problems, the difficulties, the competitiveness and the excitement and importance of doing research," she says, adding that when she becomes Vice-President (Research), she'll likely play a less prominent role in the teams she's working with.

The search for an individual to replace Bob James was extensive. More than 50 applications were submitted and five candidates interviewed.

Liz McLeod, 1930 - 1992

Campus Recreation is grieved to announce the passing of Liz McLeod, 62, on 17 June in the palliative care unit of the Misericordia Hospital.

She had been the principle Iyengar Yoga instructor in the staff and student fitness program at the U of A since 1979. "In the past decade she rose to be the preeminent instructor of this rigorous form of yoga," said Art Burgess, Assistant Director, Fitness and Lifestyle Program. "She was constantly in demand across North America as a clinician."

McLeod travelled to India regularly to attend the Iyengar Institute in Puna where she refined her skills and knowledge of yoga. A fine instructor who set high standards for her students, she will be missed by the hundreds of yoga students with whom she worked.

Relief for groaning shelves

Thousands of Library books bound for Eastpoint next year

Virtually all Canadian university libraries have storage problems and no prospects of having a new building constructed. Fortunately for the University of Alberta, conversion of an existing building into a book depository is being arranged.

Eastpoint Technology Park, at 50 Street and the Sherwood Park Freeway, is owned by the Hongkong Bank of Canada. An empty building at the site looms large in the Library's plans, the University having signed what Director of Libraries Ernie Ingles terms "a very advantageous" long-term lease with a purchase option. The Library is now working with Planning and Development; a project manager is to be selected and two tenders, one for renovations/modifications to the building, the other for the installation of shelving, should be called in a few weeks' time. Those books that are circulated infrequently should start being moved to Eastpoint next year.

The \$2.9 million for renovations and shelving has been allocated from the University's Capital Reserve Fund.

Eastpoint is just the ticket, Collections Librarian Merrill Distad says, because the libraries, with the exception of the Scott Health Sciences Library, are "bursting at the seams," and the current rate of intake is upwards of 100,000 volumes a year. The only books that the Library discards are those that are beyond repair.

The building, formerly an Ikea warehouse store, has 43,000 square feet (32,000 square feet of warehouse space and 11,000 square feet in an adjacent area). Four options are under consideration; the leading one puts the warehouse's capacity at 3,202,290 volumes. (The front area, which is separated from the warehouse by a fire wall, will contain University Archives materials, likely about 80 percent of that unit's holdings.) The average height of the stacks would be 20 feet; the shelving cost per volume works out to 19 cents.

At this time, there are 200,000 books in the basement of Cameron Library and another 65,000 in the Biological Sciences Centre that are

ready to be shipped to Eastpoint. (Ingles estimates that it will be 20 to 30 years before Eastpoint's space will be filled.)

The banks of fluorescent lights will be replaced by sodium lamps that are kind to paper and bindings, and the temperature and humidity, not unlike those in a good wine cellar, will be kept steady throughout the year.

Retrieval will be by electronically operated stock picker (the Library plans to buy two of them), a device that's seen as being three times more efficient than manual retrieval. People could request books electronically and receive them within 24 hours at the on-campus location of their choice, Distad told *Folio*. A University van will travel the seven kilometres between Eastpoint and the main campus making daily deliveries and staff and students are welcome to make the 15-minute drive to Eastpoint.

Eastpoint will function like a normal library branch except it won't have a reference section, Distad says. Of the retrieval system, the microfiche collections, readers and reader printers, the reading room and the environmental control and security, he says the Library hopes to extend the best service possible, recognizing that Eastpoint is in a slightly remote area. "We'd like it to be as good as any system anywhere."

Eastpoint is being modelled on a book depository operated by Harvard University, one that's 30 miles from the campus. "It will be the largest facility in Canada and the third or fourth largest in North America," Ingles says of Eastpoint.

With Canadian university libraries in need of more space, the U of A Library is getting enquiries about space sharing and use of stored books. Distad feels there's a good possibility that Eastpoint could become a resource sharing facility. He envisions a central, regional collection, a "library's library" run on a cost recovery basis. "It could be a multi-institutional operation where we store things in common and share them."

General Faculties Council in brief

The GFC Conference Funds Committee and other sources of conference funds will be replaced by a vice-presidential committee, GFC decided. The new committee, President Paul Davenport said at GFC's 30 June meeting, will allow for "one-stop shopping." Mohan Matthen (Philosophy), representing the Conference Funds Committee, said there had been concern that the smallness of the current committee and its lack of Faculty-wide representation hindered its ability to judge the merits of large academic conferences.

A discussion of the anchoring, that is, non-circulating, of periodicals served to illustrate that the Library is in a damned-if-you-do, damned-if-you-don't, position. Users don't like the inconvenience but the resources needed to circulate periodicals aren't what they used to be.

Director of Libraries Ernie Ingles prefaced his remarks by saying, "I feel like an ant facing an elephant stampede. I can't get out of the way but I want to minimize the damage."

"It's not how long material is out, it's the work involved in signing it out and signing it back in again," he explained.

William Dryden (Pharmacology) said the Library is not a service and can not be grouped with, say, Housing and Food Services and Printing Services. "The Library is the University. Without it we could do nothing," Profes-

sor Dryden said. He contended that if journals are anchored, there will be more photocopying because there won't be a prior screening of which articles are essential and which aren't.

Ingles agreed that the Library is essential to the academic mission but emphasized that it (the Library) is "now not among the ranks of the advantaged in North America." The Library is part of an institution that's trying to cope with significant financial restraint and that has to position itself for more of the same, he said.

The intent is that periodicals can be taken out over the weekends and extended holiday periods. "We're looking at a three- to four-hour window on Friday, and returning any time on Monday," Ingles said. "The patterns of use are going to have to change."

Vice-President (Student and Academic Services) Lois Stanford has said the anchoring of periodicals will save \$193,600 over two years.

In his oral report to Council, President Davenport said the Strategic Planning Task Force will continue to meet during the summer and that a draft discussion paper will be released in late fall.

He also said the Department of Accounting has undergone a name change and is now called the Department of Accounting and Management Information Systems.

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International dimension strongly supported by several task force presenters

The University of Alberta's international dimension must be explicitly stated and supported, says Wilf Allan, Director of Alberta International.

Addressing the recent hearings of the Strategic Planning Task Force on the key issues facing the University, Allan said there isn't an atmosphere of excitement and enthusiasm about the University's international dimension. In contrast, the University of Calgary knows in which direction it is going.

While the U of C has a clear set of priorities governing its international dimension, there is a policy vacuum at the U of A, Allan told the task force.

The University has to coordinate its international activities, said Doug Weir, program services coordinator for the International Centre. That should include a body to plan the international life of the University and coordinate policies affecting international students, said David Tupper, the Centre's information officer.

Furthermore, the University should examine its policies, so it can continue to attract scholars from around the world and ensure that its curriculum reflects international ideas, the two speakers suggested.

Chancellor Sandy Mactaggart wondered what could be done to integrate foreign students more thoroughly into the life of the institution. Tupper acknowledged that there was some ghettoization occurring in the undergraduate population, but that at the graduate level, students from other countries were more integrated into the life of the institution. Reducing the numbers of foreign students would severely compromise the University's programs, Weir pointed out. "There's a lot of misconceptions out there."

There's no question, said Students' Union Outreach Program Coordinator Martin Kennedy, that there are concerns among Albertans about the place of foreign students at the University.

Task force member Abdul Kamal (Physics) said there is a perception that for every foreign student admitted to the University, an Albertan is denied entry.

Medical student Barbara Russell said doctors in Canada will increasingly be practising medicine in a multicultural environment. That's one reason why it's important that the University's curriculum include an international dimension, she explained.

A view from rural Alberta ...

What does rural Alberta want from the University of Alberta? According to Diane Conibear, who resides in Donalda, it's more programming.

The University of Alberta should follow the Simon Fraser and UBC examples by offering more degree programs through other postsecondary institutions in the province, Conibear told a recent meeting of the Strategic Planning Task Force.

The collaborative nursing program that the University has with Red Deer College is a step in the right direction, said the school board member, but the U of A has to accelerate its efforts in the degree-granting area.

It could even look at transferring whole programs outside Edmonton.

Conibear, who earned her BEd from this institution in 1972 and whose daughter is in third-year engineering, said rural residents should have more opportunities to take some programs nearer to their homes. More arts, sciences and education courses should be offered through other postsecondary institutions.

The U of A should also be more flexible in the areas of transfers and timetabling. She pointed out that several sections of a math course were recently offered at the same time.

Residents in the outlying areas should also have more representation on the University's Board of Governors, she suggested.

U of A, other universities should rationalize their programs Schlosser says service to students the goal

Former Board of Governors Chair John Schlosser says Alberta's two major universities must work together to rationalize their programs. Such action would have to take place in a reasonable, unpoliticized manner, he recently told members of the University's Strategic Planning Task Force, who are examining key issues facing the University of Alberta.

Schlosser said that rationalization has to be done so that students get the best possible service from the system.

Betty Crown (Home Economics) said that rather than cutting programs that may be unique to the U of A, it would be better to look more closely at the duplication of professional programs in the province. Do we really need this duplication of professional programs that we currently have? she asked.

The current restructuring occurring at the University is, in part, being driven by the need to do something in a hurry, she said, but the University needs to think about restructuring in a much broader sense.

Schlosser suggested that colleges and universities operate 12 months a year. "We're not an agricultural economy anymore," he said, adding that such an arrangement would allow

students to move in and out of the system much more freely.

He also told the task force that: students need to pay more for the cost of their education; there must be a much better student loan system; business must play a more active role in the educational process; and boards of governors should be able to control student fees.

Schlosser said he would like to see a college system established which would adhere to university standards. Such a system would allow students out of Grade 12 to explore many different areas before they decided to pursue particular interests in university.

Physics Chair Ernie Kanasewich said he would like to see the University accommodate more people. He said by allowing upwards of 35,000 students to attend, additional revenues and good will in the community would be generated. There should also be night labs and a third semester, Dr Kanasewich stated.

Chief Librarian and Director of Libraries Ernie Ingles said austerity is going to continue, and it's therefore quite clear that the University needs to look at its programs. They are far too broad and diverse, and the Univer-



Chantal Petitclerc cuts her best wishes cake. Friends gathered at Lister Hall to wish her bonne chance at the Paralympics in Barcelona.

U of A student hopes to reign in Spain Wheelchair athlete wants same respect other athletes command

Wheelchair athlete Chantal Petitclerc can do a marathon faster than world-class runners. Among wheelchair athletes, her best time for 1,500 metres—3:50:85—is ever so close to the world record of 3:50:24. She's the top Canadian in her field. She's also a student at the University of Alberta who will be travelling to Barcelona to compete in the Paralympics, which follow the Summer Olympic Games.

"The wheelchair event is not an official event, but I hope it will be in Atlanta [site of the 1996 Olympics]," says Petitclerc, a native of Quebec. "It's disappointing that it's not; we [wheelchair athletes] train as hard as any other athlete."

Petitclerc, a Bachelor of Arts student in history, first got involved in her sport in a serious way while at Laval University studying French literature. However, she heard about the indoor and outdoor facilities here at the U of A and learned that she could still study in French at the Faculté Saint-Jean. So,

wanting to improve her English as well, she packed her bags.

A typical week for the paraplegic includes 10 two- to three-hour training sessions. She often trains with runners. She's candid about her chances: "I'm in good shape, but I'm inexperienced," she says, but she's not ruling out her chances for a medal.

Petitclerc, who competes over 200, 400, 800 and 1,500 metres, was in action at the recent US Olympic team trials in New Orleans. There simply isn't a large enough field in Canada to provide the consistent competition she needs. For example, there are only two other competitors in the country, one from Saskatchewan and one from Ontario.

Petitclerc—who was left a paraplegic nine years ago when a barn collapsed and broke her back—proved her mettle last year at a meet in Tokyo, placing third in the 800 metre race. (Longer distances are her forte.)

Meanwhile, she has other challenges. Her coach, Peter Eriksson, lives in Ottawa now. And unlike more high-profile athletes, such as decathlete Michael Smith, Petitclerc doesn't have a corporate sponsor—yet.

After the Olympics, she plans to return to Edmonton for her second year of studies. "I like it here. It's a great place to work and study. The people are very nice here," she said earlier this month, among friends who gathered at Lister Hall to present her with a cake, presents and their best wishes in the Paralympics. She plans to leave 28 August and return 16 September.

RESEARCH PROJECT ON UNIVERSITY TEACHING

We are studying different styles of teaching at the U of A, and are looking for university teachers to participate in our study. We are particularly interested in finding people who think of themselves as teaching from one of these five perspectives: traditional university teaching, behaviourist, humanist (andragogy), feminist, and critical social theory. Volunteers for this project are asked to contribute approximately five hours of their time over a six-month period in the coming fall and/or winter terms.

Please contact Dr Sue Scott (Adult, Career, and Technology Education), 492-0551, if you are interested.

CURRENTS



Travel update

A listing of the hotel corporate rates negotiated by the Canadian Association of University Business Officers has recently been circulated to Deans, Chairs, Directors and Departmental Administrators. The material is available for reference in departmental offices.

Travel Program Coordinator Jean Fell asks that professional expense claims be submitted before 31 July. If submitted later than that date, there will likely be some additional delay in receiving reimbursement.

Arts and Crafts Fair

The Devonian Botanic Garden will be the site of an Arts and Crafts Fair and Herb Festival, 26 July from noon to 4 pm. There will be demonstrations on preserving and drying flowers, watercolour painting for children, talks about the uses of herbs, tours of the

Herb Garden and displays and sales. Admission is \$4 for adults, \$2 for seniors and students and \$10 per family. Children under six will be admitted free.

For more information: 987-3054.

Retirement dinner for H Page Harrison

A dinner to mark the retirement of H Page Harrison (Agricultural Engineering) will be held 20 August at the Faculty Club (cocktails, 6 pm; dinner, 7 pm). Cost is \$27.50 per person.

Interested persons are asked to reply by 10 August, enclosing the cost of the meal plus any donation that they might wish to make for a gift for Dr Harrison. Cheques should be made payable to the Agricultural Engineering Social Club and forwarded to: AW Anderson, 751 General Services Building.

Call 492-4251 for further information.

Task force *Continued from page 1*

Piper, Dean of Rehabilitation Medicine; Pamela Ratner, graduate student; Harry Schaefer, Chairman of the Board, TransAlta Utilities Corporation; Sandy Slator, CEO, Vencap Equities Alberta Ltd; and Michele Veeman (Rural Economy).

Approximately 20 people presented their views on the key issues facing the University at public sessions on 25 and 29 June.

In private sessions, held 30 May and 1, 9 and 10 June, Education Minister Jim Dinning and Advanced Education Deputy Minister Lynne Duncan presented their views. Other presenters at those sessions included: Steve Karp, President of the Graduate Students' Association; Anita Moore, President of the Non-Academic Staff Association; Jim Marino, President of the Association of Academic Staff; Gordon Unger, Executive Director, AAS:UA; Christina Andrews, Alberta Education Library Services; Ken Broadfoot, Deputy Minister, Technology, Research and Telecommunications; Randy Boissonnault, President, Students' Union; Ronald Fraser, Alberta Medical Association; Robert Burns, Executive Director, Alberta Medical Association; Steven

Glover, Executive Director, Institute of Chartered Accountants of Alberta; Ken Aberle, Vice-President, Alberta Chamber of Commerce; and Gordon Williams, Dean, Science and Technology, Mount Royal College.

"The challenge for any university involved in an exercise like this is to be clear enough about the sorts of things universities should and should not be doing, so that we can progressively start shaping the range of options that should be considered," Harris said. He feels many universities' strategic planning exercises have not allowed the institutions to make choices.

"What's been very clear from the [U of A] task force's deliberations is that we're in a time when we must make choices ... not just about this particular University's range of activities, but about the way higher education develops regionally and provincially."

Many universities, Harris continued, have engaged in strategic planning processes, but those have usually focused exclusively on what those universities want to be, and the efforts haven't commonly coincided with the emergence of external forces dictating that some changes must occur. And that's what makes this particular effort special, he believes.

Is the University getting its message out? Some say it's not

Relationship between teaching and research still a tough sell

Several presenters at the University's recent Strategic Planning Task Force hearings contended that the University is simply not getting its message out to the public.

In particular, said Gurston Dacks, who spoke on behalf of Faculty of Arts Dean Patricia Clements, the intrinsic linkage between teaching and research is not well understood in the community. The bottom line, said Dr Dacks (Political Science), is that the better the University performs its teaching and research roles, the easier the public relations efforts will be.

In the long run, the best way to improve relations between the University and community is for the University to graduate good students who have had positive experiences on the campus, said John Hoddinott (Botany). The needs of first-year students have to be attended to, he said, and the University needs to help students make that difficult transition to university life.

The attrition rate in first year is unacceptably high and a waste of University resources,

he said. The University also has to be more accountable for its teaching, accept some criticism from credible critics such as Stuart Smith and respond positively to those criticisms.

Students' Union representative Martin Kennedy, who coordinates the SU's outreach activities, said there's an incredible need for information about the University in the broader community. And while people generally care about the U of A, they're misinformed, he said, noting that concerns about tenure, international students and the quality of teaching are raised regularly. People also say the institution is big, insensitive, bureaucratic and continually asking for more money.

"The reason so many people don't appreciate the importance of research is because they're not aware of the research that's going on here," Kennedy said.

Task Force member Michele Veeman (Rural Economy) said the University must tell its story better in the broader community, particularly concerning the necessary relationship between teaching and research.

Cooperative education option officially linked to BComm program

Federal government contributes funding

The cooperative education option in the Faculty of Business's BComm program will begin this fall.

Employment and Immigration Canada will fund the program to the tune of \$200,000 in decreasing amounts over four years. Thirty students will be admitted into the new program in September, and their first work term will run from January to April of 1993.

"The program is not necessarily good for all students, but it is good for some students," said Dean Jean-Louis Malouin, at the official signing ceremony earlier this month.

"This kind of experiential learning is, for us, very important," said Brian Hill, EIC Regional Director General of Alberta and Northwest Territories. He added that the peer review committee within the federal department ranked the program very highly.

Claudette de Bruijn, who will direct the cooperative education option, said the Faculty is very proud to be able to offer the option. "The University of Alberta is only one of four universities in western Canada offering cooperative education in their business program. However, the University is not new to cooperative education. The Faculty of Engineering has been offering a cooperative education option for over 10 years. Their success and support has encouraged our participation in this educational alternative."

According to Faculty officials, businesses have been urging the Faculty to set up the program option as well. Many employers in the province have stated that they prefer to hire students who have worked at their companies while enrolled in cooperative education programs. Such a program option allows business some input into the Faculty's programming, said Dean Malouin, and good contacts are maintained with employers. "It's a win-win situation."

The program option, for students entering their third year of the BComm program, will hopefully allow students to apply concepts they've learned in university to actual business situations. Moreover, the program will allow students to explore career options before their final year is complete. Cooperative education work term placements have been found to lead to permanent employment for participants. Students also help finance their education by earning money while they're employed.

The Board of Governors approved the program in March of this year. Once the federal funding runs out, the Faculty is hopeful a work term fee of about \$645 will cover the costs of administering the program. Also, the Faculty has not ruled out the possibility of soliciting funding from the corporate sector.

U of A Archives publishes a guide to its holdings

Chief Archivist Bryan Corbett says a recently published guide to the University of Alberta's archival materials will "be of value to anyone interested in the preservation and use of our Canadian documentary heritage."

From the Past to the Future: A Guide to the Holdings of the University of Alberta Archives, is a 284-page reference book that describes the rich archival resources of the University—resources available for research and teaching purposes.

There are historical sketches of more than 150 University Faculties, departments and administrative units, 75 organizations and more than 170 individuals who have transferred or donated materials to the University. It contains lists of heads of institutions and how long they served in those positions.

The introduction provides information on how to use the guide and outlines the services of the University Archives. The extent and outside dates of the records are described along with the various categories of archival information.

Funding for *From the Past to the Future* was provided by the Canadian Research Tools Program of the Social Sciences and Humanities Research Council of Canada. Additional funding was provided by the SM Blair Family Foundation, and the University Library generously supported the project with time and resources.

Corbett said the guide constitutes a source book for research. It can be ordered through University Archives or the University Bookstore for \$15.

Ross now directing Technical Services

Judith Ross is the new Director of Technical Services, succeeding Bill Jopling who retired 30 June.

Her appointment was announced by Glenn Harris, Vice-President (Finance and Administration).

Before taking on her new responsibilities, Ross served as Assistant Director of Technical Services following a career of more than nine years in the Graphics Division of that unit.

Reporting to the Associate Vice-President (Facilities), Technical Services, with a staff of approximately 60 people, is responsible for ensuring the availability of various technical services which support University teaching, research and administrative activities. The department includes divisions responsible for audiovisual services, electronic maintenance and repairs, glassblowing, graphic design and illustration services, instrument repair, photo services, machine shops, and the University's equipment inventory.

Chancellor says it's time to pay more attention to teaching

During the last 25 years the University has profoundly altered its function, moving from a teaching university to a research university, Chancellor Sandy Mactaggart told the recent University Management Workshop whose theme was "Students—A Lifeline Between Universities and Communities".

"It did this under cover of the vast prosperity our community was enjoying," he said. "Research universities are collections of scholars pursuing their particular interests financed by the taxation of the community."

"When that money is plentiful, nobody cares very much what the scholars do with it. Our University is now dedicated to original scholarship, and our faculty are rewarded for their excellence in research, to a much greater degree than for their excellence in teaching."

"Professors prefer to associate with advanced students, who can help them explore unknown areas in their fields. They are much

less interested in spending their time regurgitating what is already known, which is the province of undergraduates. It is hardly surprising that in this environment, scholars will begrudge time spent on undergraduate teaching, will attempt to maximize time available for research, and will measure the worth of a colleague by the quantity and quality of their publications in refereed journals."

Wanting to make it clear that he was presenting an impression of the general and not the particular, the Chancellor said there are many dedicated professors here who excel at teaching undergraduates. But he pointed out that what he is describing is at odds with the desire of the vast majority of undergraduate students and their parents.

"Most parents have attended university so that their job prospects and their prosperity will be enhanced. They send their children for the same reason. To the extent that the full

powers of the University are not directed to that end, they perceive a flawed process. While avowing research in general, if insufficient resources are available to support both, they will certainly favour teaching over research."

The nub of the dilemma is this, he said: The University believes that insufficient resources are a problem. "One might almost say that the majority of the faculty and staff believes that this is our only problem."

"We are told that we are graduating disgruntled students, unhappy with their University experience. Such graduates are unlikely to respond favourably to alumni appeals. It is these same students who alienate their parents from the University by carrying home tales of their frustrations. And yet this is the community to whom we must apply for the future support we know is vital to our survival? No corporation would flourish if it embraced these marketing principles."

Former chair of Edmonton Public Schools critical of grading system

A former chair and trustee of the Edmonton Public School Board says students at the University of Alberta are driven to distraction by the grading system which arbitrarily sets the mean for courses.

"It's against everything we teach them in the Faculty about working with children," Don Massey said. It would simply be wrong if any of them decided that they would walk into their fourth grade classrooms and set the mean for reading before they ever instructed the children.

Addressing the recent University Management Workshop 1992, entitled "Students—A Lifeline Between Universities and Communities", Dr Massey (Elementary Education) said students should not be treated arbitrarily.

He explained that last fall he had a student in one of his classes come to him and ask if she would be getting an eight in the class. She had been given a seven on her first assignment. The student said if she wasn't going to get an eight, she would withdraw from the course immediately.

"To say that I was flabbergasted is an understatement," Dr Massey said. "And then I started to think about it. Is it really any surprise? The grading policy on campus is that in the extreme we would have three Einsteins in the class, at least a small percentage should fail, and even a smaller percentage should get a nine."

"We have departments, including my own, that set mean grades per courses, depending on the course level, prior to ever meeting the students." Dr Massey added that it's no wonder that student thought it was appropriate that she be given a guaranteed mark.

In his discussion, Dr Massey outlined a number of reasons why U of A students are made to feel like "886610s".

"I can't help but think that it is the climate that we establish in the school system and here that is really very important. I wonder how the 886610s are going to feel when after they're finished here they're asked to support the alumni association. How are they going to feel about paying taxes to support us? And how are the 886610s going to act when they become members of the legislature and really hold our fate in their hands?"

U of A should aspire to be number 1 and nothing less, say presenters

The key is attracting the best faculty

The University of Alberta should aspire to be one of the best universities in the world, says Jim Vargo, Associate Dean of the Faculty of Rehabilitation Medicine.

The first step in that process is to become the best in Canada. We're not there yet no matter what criteria are used, he told members of the University's Strategic Planning Task Force, who earlier this month held public hearings into the key issues facing the U of A.

The way to do that, he said, is by attracting and retaining outstanding staff members, and the University has to make a concerted effort to do that. "Every unit head, director or chair should be able to say that they are truly sorry to see faculty members leave."

Too many people are bemoaning our fate and saying "poor us". But the government is not going to fund the University to the extent it did before and the University is no more disadvantaged than any other university in Canada, Dr Vargo said, adding that the U of A, like someone with a disability, is in need of adjustment counselling so that it can get on with it.

Some Faculties use the 2 zero ds (the mechanism whereby faculty members can be dismissed) better than others, but more unit

heads, directors and deans need to be assured that the mechanism is there for a legitimate purpose and that the central administration is behind them. The mechanism for dismissing people with tenure who aren't performing satisfactorily should be used more often, he said.

Chancellor Sandy Mactaggart said there are no rewards for using the clause and, in fact, there are more reasons people are discouraged, rather than encouraged, from doing so.

Faculté Saint-Jean Dean Jean-Antoine Bour said excellence is achieved by combining high standards and a high quality professoriate.

The campus needs more younger faculty members, said Physics Chair Ernie Kanasewich. The University needs to encourage more "golden handshakes" and adopt more effective early retirement policies.

The University should strive to be among the top three universities in the country, Dean of Medicine Doug Wilson said, and it should seek selected recognition in some graduate areas. He wondered aloud why the University has such a high proportion of tenured professors compared to other universities and suggested it explore other alternatives to tenure, such as three- to five-year full term contracts.

Chair in Agricultural Marketing and Business established

A cooperative Chair in Agricultural Marketing and Business has been established in the Department of Rural Economy. President Paul Davenport and Alberta Wheat Pool President Ray Schmitt put pen to paper in late May.

The Chair is made possible with private support from agricultural cooperatives and marketing boards across the province, together with generous matching from Alberta Advanced Education's Endowment and Incentive Fund, and support from the U of A.

Once the terms of reference were struck, funding came fairly easily, said John Melicher, Executive Director, Rural Education and Development Association, and secretary of the fundraising committee. The recently formed Cooperative Chair Council will be looking for a "world-class individual in the field," someone who has a broad understand-

ing of cooperative systems and marketing, Melicher said.

The Chair holder will be based at the U of A but will travel throughout Alberta, be available for various annual meetings and help expand relationships with other universities. Other responsibilities include: improving upon the already strong relations between the Faculty of Agriculture and Forestry and cooperatives, boards, commissions and other entities with interests in extension education in cooperative marketing and business management; strengthening the research arm of the Faculty; and expanding the teaching area within the Faculty to ensure that students are kept abreast of new and developing strategies in marketing and business management.

It's anticipated that the Chair will be filled by September 1993. The first person will be the key; if good groundwork is laid, other organi-

TALKS

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

23 July, noon

Greg Rice, senior research fellow, Department of Physiology, Monash University, Clayton, Victoria, "Extracellular Phospholipase A2—The Trigger for Parturition." Cosponsor: Centre for Research in Maternal, Fetal and Newborn Health. 2F1.01 Mackenzie Health Sciences Centre.

MEANOOK BIOLOGICAL STATION

21 July, 7:30 pm

Daryll Hebert, Integrated Environmental Resource Manager, Alberta Pacific Forest Industries Inc., "The Woodlands Environmental Resource Program at Alberta Pacific Forest Industries Inc."

28 July, 7:30 pm

Paul Dinsmore, "The Impact of Oxygenation on the Benthic Fauna of Amisk Lake, Alberta."

Lectures take place at Meanook Biological Station, located 135 km north of Edmonton on Highway 2, 75 km past the junction with Highway 18, where a sign indicates the Meanook turnoff. The station is 3.9 km from Highway 2 and 14 km south of Athabasca. Information: 675-4934.

Nobel Prize recipient will visit Physics Department several times a year

An alumnus and 1990 co-winner of the Nobel Prize in Physics, Richard Taylor, will be visiting the Physics Department several times a year, likely beginning this fall.



Richard Taylor

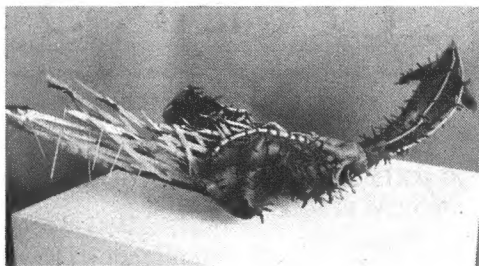
At the July meeting of the Board of Governors, Dr Taylor, a Stanford University physicist, was named a University Distinguished Professor.

Dr Taylor, who earned BSc and MSc degrees at the U of A in the early 1950s and who has a number of colleagues here that he regularly keeps in touch with, will visit for several-day stretches. He'll have an office in the department and will meet with colleagues, undergraduate students and graduate students.

"This is a tremendous development for our department and a real coup to have a Nobel Prize winner visiting here," said Physics Chair Ernie Kanasewich, adding that the department has recently been bolstered by the hiring of two new professors.

zations will likely be persuaded to contribute funding, Melicher said.

Also present at the signing ceremony at University House were Howard Haney, Past-President, United Farmers of Alberta Cooperative; Ed Tyrchniewicz, Dean of the Faculty of Agriculture and Forestry; Jean-Louis Malouin, Dean of the Faculty of Business; and Ed Schultz, General Manager, Alberta Pork Producers Development Corporation.



"Influxing Electromagnetic Currents Funnelled Too", 1988, Trevor Mercer, mixed media, from the Collection of the Alberta Foundation for the Arts.

EVENTS

EXHIBITIONS

BRUCE PEEL SPECIAL COLLECTIONS

Until 25 September

"Ukiyo—e: glimpses of the floating world"—an exhibition of Japanese woodblock reproductions and illustrated books. Hours: Monday to Friday, 8:30 am to 4:30 pm; closed weekends. B7 Rutherford South.

FAB GALLERY

Until 23 August

"New Works from the Collection of the Alberta Foundation for the Arts"—paintings, drawings, sculpture, prints and photographs by 31 Alberta artists. Gallery hours: Tuesday to Friday, 10 am to 1 pm and 2 to 4 pm; Sunday, 2 to 5 pm; Monday and Saturday, closed. 1-1 Fine Arts Building.

POSITIONS

The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

ACADEMIC

DIRECTOR, OFFICE OF PUBLIC AFFAIRS

The Director of Public Affairs is responsible for planning, implementing, and evaluating programs through which the University of Alberta communicates with its internal and external audiences. These programs include print and electronic communications and media and community relations. Along with the Directors of Advancement Services, Alumni Affairs, and Development, the Director of Public Affairs reports to the Vice-President (Development and Community Affairs).

Qualifications: The Director of Public Affairs must hold at least a bachelor's degree from an accredited university and have a minimum of seven years' experience in media and public relations including at least three years' management experience.

The successful candidate will have a solid understanding of, and experience in, print and electronic media, marketing, media relations, and public relations. He or she will possess excellent written and oral communication skills, have strong interpersonal and organizational abilities, and exhibit a high energy level, attention to detail, and capacity for leadership and teamwork.

Salary range: The 1992-93 salary range is \$43,501 to \$65,257.

Application procedures: Applicants are asked to submit a résumé, a statement which explains their interest in the Director of Public Affairs position, and five samples of electronic and/or print communications. Review of applications will begin on 21 August and continue until the position is filled. Please send application materials to: John S McConnell, Vice-President (Development and Community Affairs), University of Alberta, 450 Athabasca Hall, Edmonton, Alberta T6G 2E8.

ASSOCIATE DIRECTOR, ANNUAL GIVING, DEVELOPMENT OFFICE

Position: The Associate Director, Annual Giving, is responsible for generating annual, recurring gifts from individuals, corporations, and organizations. He/she plans and executes solicitation, gift acknowledgement, and recognition/stewardship programs for the annual fund. The Associate Director reports to the Director of Development.

Salary range: \$36,395 to \$54,587 per year.

Qualifications: The Associate Director, Annual Giving, should hold a bachelor's degree from an accredited college or university and have a minimum of three years' professional experience, including at least two years in fundraising for a college, university, or other nonprofit organization.

The successful candidate must possess excellent persuasive written and oral communication skills, have strong interpersonal and organizational abilities, and exhibit a high energy level, attention to detail, and capacity for leadership and teamwork.

We will begin to review applications 7 August 1992.

Please submit application to: Margaret Clarke, Director of Development, University of Alberta, 450 Athabasca Hall, Edmonton, Alberta T6G 2E8. Fax: 403-492-9453.

COOPERATIVE EDUCATION COORDINATOR, FACULTY OF BUSINESS (ONE YEAR TERM POSITION WITH A POSSIBILITY OF EXTENSION)

The Faculty of Business is seeking a Cooperative Education Coordinator for the Cooperative Education option in the Bachelor of Commerce degree program. The Coordinator will report to the Director, Office of Placement Services.

The Coordinator is responsible for the development of paid, business related jobs in sufficient numbers and of sufficient diversity to meet the needs of cooperative education students; for preparing cooperative education students for successful participation in the cooperative education option through formal class instruction and individual advising; for evaluating students for credit purposes in the work experience portion of their programs and for contributing to the maintenance and enhancement of Faculty of Business relationships with employers.

Qualifications: An undergraduate or graduate degree in Commerce or Business is required. Strong interpersonal, communication and organizational skills are necessary. Knowledge of the University's academic structure and community, especially in regard to the Bachelor of Commerce program and experience in the area of cooperative education and/or career planning and placement, is a definite asset. Applicants will be required to travel to work sites to monitor students on the job.

Salary range: \$34,000 to \$41,000 per year, depending upon qualifications.

Interested applicants should submit a letter, résumé and the names of three references to: Claudette de Bruijn, Director, Office of Placement Services, 2-21 Faculty of Business, University of Alberta, Edmonton, Alberta T6G 2R6, by 24 July 1992.

DIRECTOR, INTERNATIONAL CENTRE

The Director of the International Centre at the University of Alberta reports to the Dean

of Student Services. The Centre is accountable for the direction, control and coordination of services and programs for foreign students, the promotion of international programs for all students, and ensuring the implementation of the University's International Student Policy.

This is a full-time Administrative Professional Officer position with an assigned 1992-93 salary range of \$37,309 to \$55,969.

Applicants are advised to contact the Dean of Student Services at 492-4145 for further information regarding this position.

SUPPORT STAFF

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 10 July 1992. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR. Positions available as of 10 July 1992.

The salary rates for the following positions reflect adjustments in accordance with the new classification system and pay plan.

CLERK STENO (Grade 4), Educational Administration, (\$1,699 - \$2,093)

CLERK STENO (Grade 5) (Term to 16 April 1993), Elementary Education, (\$1,855 - \$2,298)

CLERK STENO (Grade 5), Faculty of Extension (Land Economics and Real Estate), (\$1,855 - \$2,298)

SECRETARY (Grade 5), Political Science, (\$1,855 - \$2,298)

AUDIOVISUAL TECHNICIAN (Grade 5), Faculty of Extension (Education Media), (\$1,855 - \$2,298)

MAINTENANCE WORKER/SENIOR GARAGE HELPER (Grade 5) (40 hour week), Physical Plant - Vehicle Pool, (\$2,120 - \$2,626)

PARKING CONTROL SUPERVISOR (Grade 5) (40 hour week), Physical Plant - Parking Services, (\$2,120 - \$2,626)

PIPEFITTER (Grade 8) (40 hour week), Physical Plant - Steam Utilities, (\$3,486)

ANIMAL TECHNICIAN (SURGICAL ASSISTANT) (Grade 9), Health Sciences Laboratory Animal Services, (\$2,584 - \$3,278)

PROGRAMMER ANALYST (Grade 9), Computing Science, (\$2,584 - \$3,278)

PROGRAMMER ANALYST (INFORMATION MANAGEMENT ANALYST) (Grade 9), Office of the Registrar, (\$2,584 - \$3,278)

PROGRAMMER ANALYST (Grade 9) (Term to 28 February 1994), Office of the Registrar, (\$2,584 - \$3,278)

TECHNICIAN (Grade 11), Physics, (\$2,982 - \$3,827)

DISPATCH SUPERVISOR (Grade 11) (40 hour week), Materials Management, (\$3,408 - \$4,373)

ADS

ACCOMMODATIONS AVAILABLE

VICTORIA PROPERTIES - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call (604) 595-3200, Lois Dutton, Re/Max, Ports West, Victoria, BC.

RENT - Riverbend condo, Essex House. Two bedrooms, furnished, \$1,200. 1-31 August 1992. Western Relocation, 434-4629

RENT - West end, beautiful, new, 1 1/2 storey on quiet crescent. Near country club golf course, \$1,500/month. Western Relocation, 434-4629.

RENT - Lynnwood, west end, three bedroom bungalow. Immaculate condition, quiet, garage, \$1,050/month. 1 August 1992 possession. Western Relocation, 434-4629.

RENT - Riverbend/Brander Drive, furnished executive four bedroom, two storey, facing ravine. September - May 1993. \$1,500/month. Western Relocation, 434-4629.

SHARED ACCOMMODATION - Idlewyld area, responsible persons to share house. On bus route to University, easy access to downtown, \$270/month. Immediate. Western Relocation, 434-4629.

SALE - Executive bungalow, Saskatchewan Drive. Atrium, sauna, jacuzzi, studio, security system. Lot 90 x 137, double garage plus single tandem. Vendor leaving province, will negotiate. Janice Duke, Royal LePage Realty, 437-7480.

SALE - Royal Gardens, two storey, total of six bedrooms, sauna, jacuzzi. Close to schools, pool, transportation. Direct bus to University. Janice Duke, Royal LePage, 437-7480.

SALE - Yellowbird, two storey, double attached garage, main floor family laundry, formal dining room. Immaculate home in mint condition, \$159,900. Janice Duke, Royal LePage, 437-7480.

SALE - LeMarchand Tower, two bedroom condo. Two underground parking stalls, six appliances. Immaculate west view, river valley. Only five minutes to University. Janice Duke, Royal LePage, 437-7480.

RENT - Furnished, luxury apartment in downtown highrise, central to all facilities. Two bedrooms, \$980/month, includes all utilities except phone. Available 15 October 1992 - 15 April 1993. Phone 488-3916.

RENT - Unfurnished, four bedroom house. Two blocks from University, available 1 August 1992. 486-5541.

RENT - Four bedroom family home in quiet Westridge crescent. Available mid-July. 487-0437.

RENT - Three bedroom home facing park in beautiful Goldbar. Double garage, fireplace, rumpus room, \$800/month. 465-5763.

RENT - Five bedroom executive home, 25 minutes from campus. Quiet crescent location, spacious yard backs onto park. 1 September - June/July 1993. Furnished, \$1,100/month. 492-4251, 460-2918.

SALE - Near University, 1 1/2 lots (cleared) at 11214 78 Avenue. Phone 434-2335, 435-7811, or 436-1191.

SALE - Family home with atrium on 100' x 200' lot. Backs onto ravine. More than a home, this is an investment. \$285,000. Dick Scragg, Royal LePage, 438-4700.

SALE or LEASE - Condominium penthouse, Old Strathcona, Saskatchewan Drive. 1,880', two large bedrooms, spectacular view, fireplace, sunken living room, elevator, underground parking, all appliances. 433-0104 (leave message).

RENT - Three bedroom, fully furnished house. 1 September 1992 - 1 May 1993. Just

bring your suitcases. No pets, nonsmokers, Capilano area. Mature student with family preferred. Phone 466-3014.

SALE/RENT - Mint condition executive home. West end, large lot on ravine. Quick access Whitemud. Air conditioned, alarm, hot tub, custom blinds, new carpeting, main floor laundry. Available immediately. Call 487-9873.

SALE - By owner, 12th floor condo, one block from University, Claridge House, 11027 87 Avenue. Two bedrooms, two bathrooms, laundry room, two underground parking, pool, jacuzzi, sauna. Asking \$160,000. 433-5853.

RENT - Completely furnished home; two bathrooms, four bedrooms, fireplaces, all appliances, twelve minutes to campus. No pets, nonsmokers, fall to spring. 483-6300.

SALE - By owner, Riverwind suite 1203W. Walking distance to University. Unparalleled view of river valley. Lowest mortgage anywhere. Priced well below comparable Riverwind suites. Must sell. Recorded message: 431-0090.

RENT - Large, two bedroom basement suite. Includes utilities, laundry facilities, linens, dishware. Fully furnished, \$475/month. 435-4658.

RENT - Beautiful, four bedroom bungalow, Aspen Gardens. 2 1/2 baths, fireplaces, finished basement, double garage, patio. Near bus, schools, country club. \$1,200/month, 1 September. Reg MacDonald, 439-7000.

SALE - Refurbished house, University area. Close to all major city arteries, double garage, park-like backyard. Must be seen. By appointment, 439-2344.

RENT - New, executive, 1,200', two bedroom. Superb city, river valley view, close to all amenities, University. 1 1/2 jacuzzi baths, five appliances, fireplace, garage. Tennis, golf course, four blocks. Immediate. 468-1579.

SEEKING mature, nonsmoking female to share lovely Belgravia home (80 Avenue, 115 Street). September to April 1993. Hardwood floors, six appliances, double garage. Exceptional value at \$375 plus utilities. 437-3399.

SALE - Three bedroom bungalow in Malmo, very good condition, finished basement, double garage, excellent condition. \$135,900. Raymond Cheng, Royal LePage, 438-4700.

RENT - Near University, \$725/month, available late August, one year. Quiet, three bedroom bungalow, furnished, no smokers/pets. 435-6383.

RENT - Family home; view Saskatchewan Drive, 10 minutes to University. Furnished, three plus one bedrooms. Nonsmokers, small pets allowed. September 1992 - September 1993. \$2,000/month. Call Ellen Armstrong, 421-8666.

SALE - Saskatchewan Drive, terrific view, super location. Spacious bungalow, huge lot. Chris Tenove, Spencer Realty, 435-0808, 433-5664.

SALE - Upgraded bungalow, four bedrooms, Southgate area. Chris Tenove, Spencer Realty, 435-0808, 433-5664.

SALE - Claridge House, condominium, 11027 87 Avenue. Prime property across from campus. Swimming pool, air conditioning, very spacious, ample closets, storage, laundry, vacant. \$101,900. Helen Rhodes, Re/Max Real Estate. 426-4461, 488-2180.

SALE - South Callingswood, condominium townhomes. Bright, spacious, vaulted ceilings. Two, three bedrooms, private yard, CMHC approved, five percent down available, from \$62,900, immediate possession. Helen Rhodes, Re/Max Real Estate. 426-4461, 488-2180.

SALE - Strathcona House, 10883 Saskatchewan Drive, condominium, \$77,777. Magnificent view, spacious 19th floor corner unit. Assumable mortgage, 8.5 percent. Best buy in building, swimming pool. Helen Rhodes, Re/Max Real Estate. 426-4461, 488-2180.

SALE - Ravine, old Riverbend. Quick, uncomplicated access, hospital/University. Classic brick two storey. Privacy, quality, beautiful treed lot. Classy, not "glitzy". Pat von Borstel/Denise Rout, Spencer Real Estate, 435-0808.

SALE - Parkallen, three plus one bedroom bungalow. 1,300', renovated, two baths, fireplace, large yard, garden, single garage. Walk/short drive - University. Near schools, shopping, on bus routes. \$139,900. 438-5199.

RENT - Valleyview/Laurier, lovely three plus bedrooms, upgraded, 2,400' executive home. September-May (negotiable), close French immersion schools, downtown, University, river valley. \$1,550/month, can be partially furnished. 454-6268.

RENT - Walk to University. Executive, two bedroom, den, five appliances, fireplace, underground parking. No pets, \$995/month, immediate. 481-3513.

RENT - Furnished, four bedroom, Parkallen. Two baths, fireplace, piano, garage. Near bus routes, fenced, quiet neighbourhood. Nonsmoking, \$750 plus utilities. September, for one year. 434-1267, 929-8031.

RENT - Five minutes to hospital, University; unfurnished three bedroom bungalow. All appliances, garage, built-up basement with 1-2 person suite plus family room. Available immediately. 437-6768 after 6 pm.

SALE - University area bungalow, 1,100', five bedrooms, separate, bright, furnished, basement suite. Deck, double garage. 437-4808.

RENT - Bachelor, one, two bedroom, clean, quiet, security, adult buildings close to all amenities. Sauna, jacuzzi, exercise room. Reasonable rates. Please call 420-1184, 456-1307.

SUBLET - Furnished Strathcona house, 4-31 August, \$470. 433-9995.

ACCOMMODATIONS WANTED

MATURE University employee available to housesit, previous experience. Phone Joanna, 433-8668 or 492-6365.

FURNISHED home required. Three/four bedrooms, downtown/central location. September 1992 - May 1993, up to \$1,500/month. Western Relocation, 434-4629.

FURNISHED two bedroom, plus den required. Two year lease, September 1, 1992. Downtown/central location. Western Relocation, 434-4629.

URGENT - Couple from Norway, five-year-old daughter requires three bedroom home in Windsor Park, August - 31 December 1992. Furnished or unfurnished. For further information, Western Relocation, 434-4629.

PROFESSIONAL COUPLE, two teenagers seek house or apartment to care for, September-October 1992. Nonsmoking, references available. Call Peter or Elana, 489-0350.

GOODS FOR SALE

CASH PAID FOR APPLIANCES, 432-0272
ONE queen waterbed; chesterfield/chair set; kitchen set (table/two chairs); single brass headboard; single bed/wood headboard; electric mower. Two end tables; two colour TVs. 435-1787 after 6 pm.

THREE DOOR refrigerator, microwave oven, and single bed ensemble. Call 437-4903.

AUTOMOBILES

1984 TOYOTA COROLLA hatchback, five-speed. 108,000 km, \$3,750. 492-3301, 433-4081.

SERVICES

DONNIC WORD PROCESSING - Since 1978, specializing in theses, manuscripts, etc. 453-2769.

COMPUTERIZED LITERATURE SEARCHING - Expert information retrieval by experienced scientist. All areas. Requests accepted by phone. No red tape! Competitive rates. Satisfaction guaranteed. JL Citation Services, 487-8652.

DAVID RICHARDS CARPENTRY - Certified journeyman NAIT. Complete interior and

exterior residential renovations including plumbing and electrical. References available. 436-6363.

PROFESSIONAL TYPIST - Word processing. Specializing in theses, dissertations, manuscripts. Gwen, 467-0515.

PROFESSIONAL WORD PROCESSOR - Engineering and general transcription, résumés, manuscripts. Reasonable. 481-5274.

INDEXES TO PUBLICATIONS and files, thesauri, bibliographical projects. Bridgework, 452-8325.

DON'T FORGET to pick up your JAVA JIVE "Coffee Club Card" at our HUB and SUB locations.

WORD PROCESSING, laser printing, fast, accurate, rush jobs accepted. Susan, 466-1097.

SPRINGHILL Cooperative Nursery School in Garneau School has limited space available for fall in two-, three- and four-year-old groups. Springhill offers outstanding teacher, environment and facilities. Flora, 439-5353.

NEED FRESH EYES? Experienced proof-reader - thorough - efficient, English graduate. Reasonable rates, references available. Phone 466-0186.

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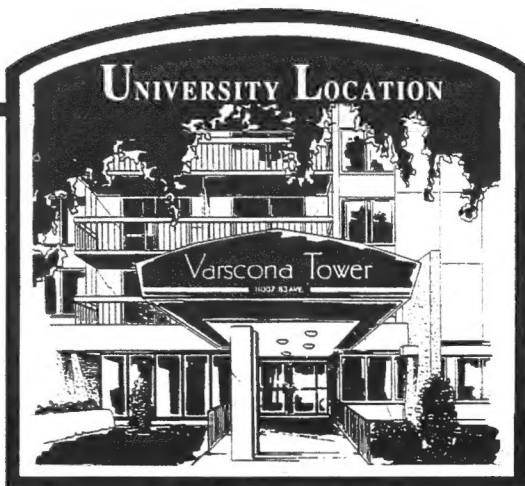
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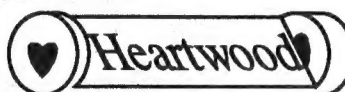
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